CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

13th April 2016

Dear Sir,

Sub: Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AEE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of Agency	Sri. G. Venkategowda
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.11 X 150.0	22538	16/03/2016	13/04/2016	28	8.21	505	22.44	22.07
2		150.12 X 150.13 X 150.0	22538				8.18	485	21.56	
3		150.15 X 150.12 X 150.0	22541				8.20	500	22.22	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of Agency	Sri. G. Venkategowda
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.16 X 150.14 X 150.0	22545	16/03/2016	13/04/2016	28	8.20	495	22.00	21.78
2		150.12 X 150.11 X 150.0	22535				8.19	490	21.78	
3		150.14 X 150.13 X 150.0	22541				8.18	485	21.56	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of Agency	Sri. G. Venkategowda
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.12 X 150.13 X 150.0	22538	16/03/2016	13/04/2016	28	8.18	485	21.56	21.93
2		150.13 X 150.12 X 150.0	22538				8.19	495	22.00	
3		150.14 X 150.16 X 150.0	22545				8.20	500	22.22	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AEE

CIVIL TECH LABS
Accredited by NABL as per ISO/ IEC 17025 : 2005
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com
T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

05th March 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Developmental Work in GKVK layout and surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of the Agency	Sri. G. Venkategowda
Date of Testing	05/03/2016

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
#5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of Agency	Sri. G. Venkategowda
Date of Testing	05/03/2016
Specific Gravity	2.67
Water Absorption	0.29%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	99.1	95-100	
20	55.3	30-70	
10	26.2	10-35	
4.75	3.5	0-5	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of Agency	Sri. G. Venkategowda
Date of Testing	05/03/2016
Specific Gravity	2.62
Water Absorption	0.31%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.5	95-100	
10	44.1	25-55	
4.75	8.1	0-10	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of the Agency	Sri. G. Venkategowda
Date of Testing	05/03/2016
Grade and Brand of Steel	Fe - 550

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.396	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	11.2	8	Satisfactory
5	Yield Stress(N/Sq.mm)	556	550	Satisfactory
6	U T S (N/Sq.mm)	591	545	Satisfactory

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of the Agency	Sri. G. Venkategowda
Date of Testing	05/03/2016
Grade and Brand of Steel	Fe - 550

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	12.8	8	Satisfactory
5	Yield Stress(N/Sq.mm)	530	550	Satisfactory
6	U T S (N/Sq.mm)	564	585	Satisfactory

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 16 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Developmental Work in GKVK layout and Surrounding area in Ward No. 04 of Yelahanka Setalite Town Sub Division.
Name of the Agency	Sri. G. Venkategowda
Date of testing	05/03/2016
Grade and Brand of Steel	Fe - 550

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.6	8	Satisfactory
5	Yield Stress(N/Sq.mm)	572	550	Satisfactory
6	U T S (N/Sq.mm)	608	585	Satisfactory

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE